

**Notice of Allowability**

Application No.

10/765,292

Examiner

Michael t. Tran

Applicant(s)

HSU ET AL.

Art Unit

2827

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to communications filed January 27, 2004.
2. ☒ The allowed claim(s) is/are 1-49.
3. ☒ The drawings filed on 27 January 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 012704
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
MICHAEL TRAN  
-PRIMARY EXAMINER

## DETAILED ACTION

1. In response to the Communication dated January 27, 2004, claims 1-49 are active in this application.

### ***Information Disclosure Statement***

2. The information disclosure statement filed January 27, 2004 has been considered.

### ***Allowable Subject Matter***

3. Claims 1-49 are allowable over the prior art of record.
4. The following is an Examiner's statement of reasons for the indication of allowable subject matter: the prior art of records does not show (in addition to other elements in the claim) the following:
  - Applying a gate voltage to the control gate relative to a reference voltage, a source voltage to the source relative to the reference voltage, and a drain voltage to the drain relative to the reference voltage, in an operation to induce charge transfer to the charge storage element and establish, in an operation to induce transfer to the charge storage element and establish a threshold voltage for the memory cell.
  - A program controller coupled to the decoding circuitry and to the voltage supply circuit, the program controller adapted to execute a self-converging program operation for a selected memory cell to induce charge transfer to the charge storage element and establish a threshold voltage for the selected memory cell.

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- A program controller coupled to the decoding circuitry and to the voltage supply circuit, the program controller adapted to execute a program operation for a selected memory cell to induce charge transfer to the charge storage element on first and second sides of the memory cell, and establish threshold voltages on the first and second sides of the selected memory cell, the program operation including storing more than one bit of information in each of the first and second sides of the memory cell.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael T. Tran whose telephone number is (571) 272-1795.

7. Any inquiry of a general nature or relating to the status of this application should be directed to Group receptionist whose telephone number is (571) 272-1650.



Michael T. Tran

March 21, 2005

MICHAEL TRAN

EXAMINER